WHAT IS CLAIMED IS:

1. A method of manufacturing a bearing device for vehicle whose outer ring comprises:

a cylindrical main body comprising a raceway in an inner peripheral surface thereof;

a flange provided in an outer peripheral surface on a vehicle inner side of the cylindrical main body; and

a cylindrical fitting tolerance part provided further on the vehicle inner side than the flange, wherein

the cylindrical main body is made turning in a state where the flange is held by a holding device.

2. The method of manufacturing the bearing device for vehicle according to Claim 1, wherein

the cylindrical main body is made turning and then heat-treated, and

a side surface on the vehicle-inner-side of the flange and an outer peripheral surface of the cylindrical fitting tolerance part are made turning to be finished after the heat treatment.

3. The method of manufacturing the bearing device for vehicle according to Claim 2, wherein

the side surface on vehicle-inner-side and the outer peripheral surface of the cylindrical fitting tolerance part are made turning to be finished referring to the outer peripheral surface of the cylindrical main body after turning as a standard grinding level after the outer peripheral surface of the cylindrical main body is held in the turning step to be finished.

4. The method of manufacturing the bearing device for vehicle according to Claim 1, wherein

the flange is held at a plurality of positions in an outer peripheral surface of the flange spaced to one another at circumferentially equal intervals when the flange is held.

5. The method of manufacturing the bearing device for vehicle according to Claim 4, wherein

the flange comprises large-diameter flanges provided with bolt holes and small-diameter flanges provided between the large-diameter flanges in the circumferential direction,

a plurality of holding parts is used when the flange is held, and

a holding part comprising a recessed part recessed toward an outer-diameter side and having a dimension capable of housing the large-diameter flange on an inner-periphery side, is used as at least one of the plurality of holding parts.